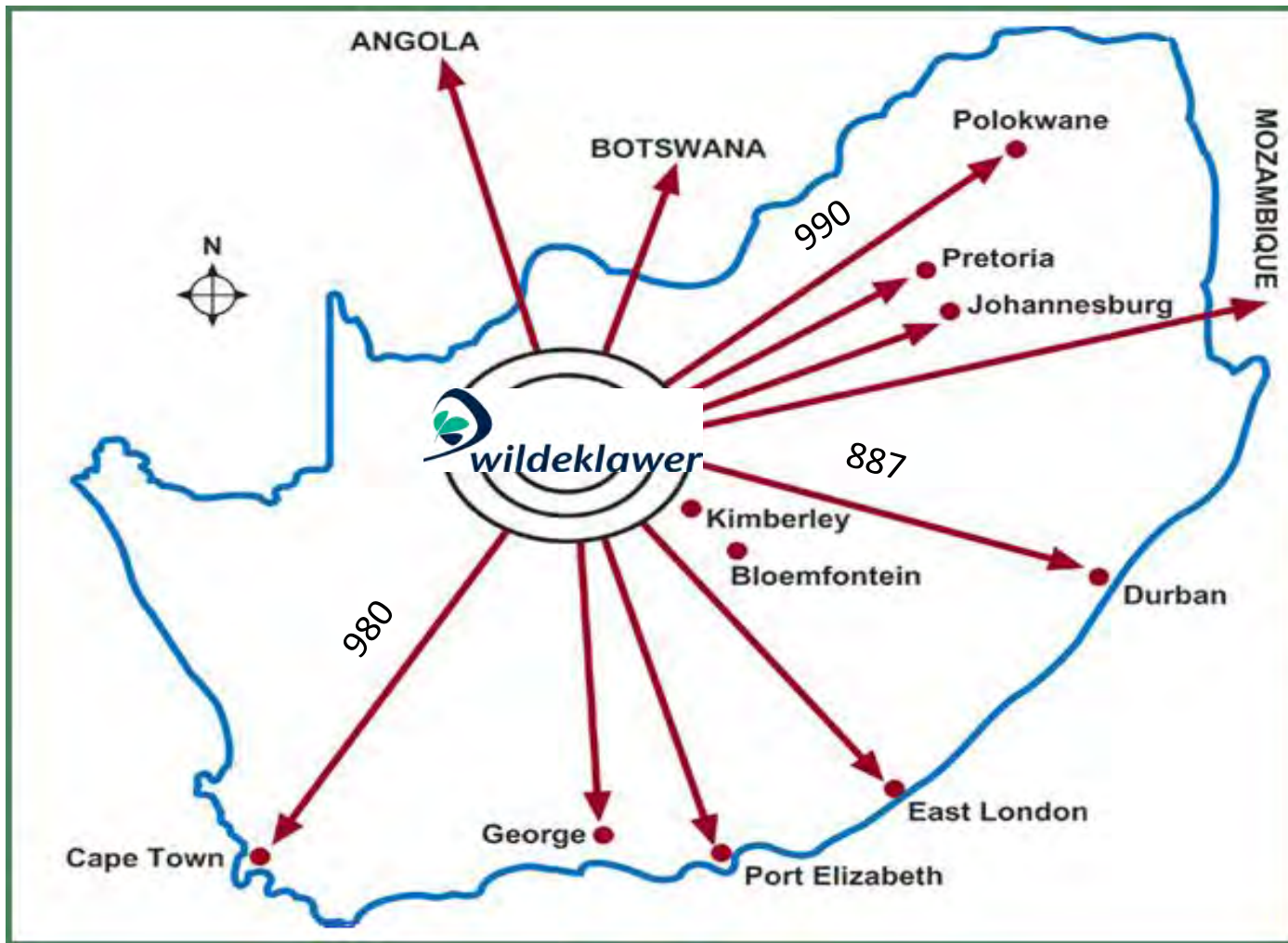




wildeklawer

Location in South Africa



FACTS ABOUT WILDEKLAWER

- ❖ In Business since 1987
- ❖ Bought as bankrupt, poor agricultural land, too sandy
- ❖ Now one of SA's most productive, efficient farming enterprises
- ❖ More than 100 centre pivots;
- ❖ Production on 3,750 ha/year under irrigation
- ❖ Vegetables = 1,810 ha/year





Onions - 45 000 ton



Potatoes - 24 000 ton



Carrots – 37 000 ton



Beetroot - 11 500 ton

A close-up photograph of a single wheat spikelet, showing the individual grains and awns. The spikelet is green and appears to be in the early stages of grain development. The background is a blurred field of similar wheat plants under a clear blue sky.

Wheat - 12 000 ton



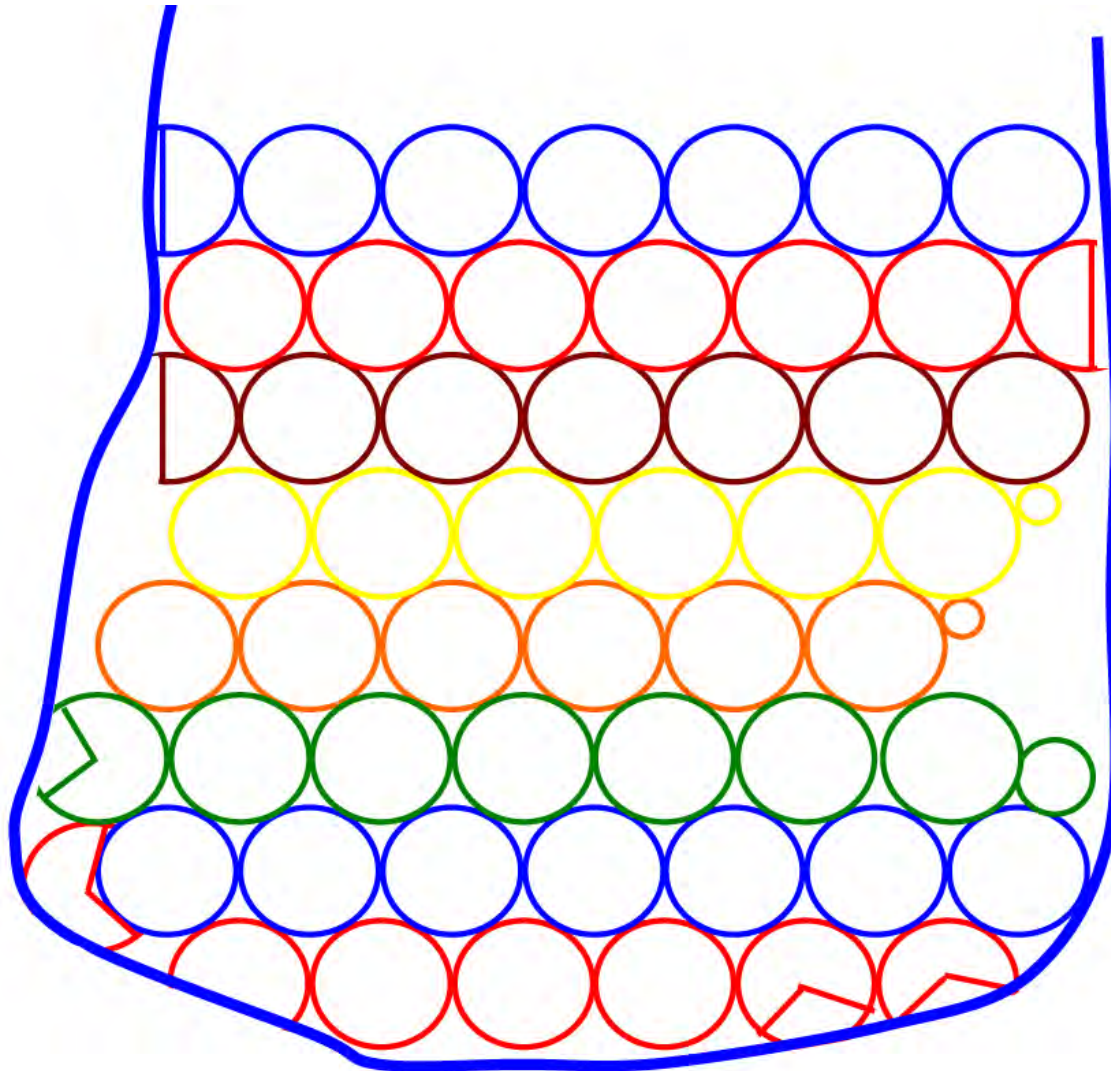
Maize - 12 000 ton

FACTS ABOUT WILDEKLAWER

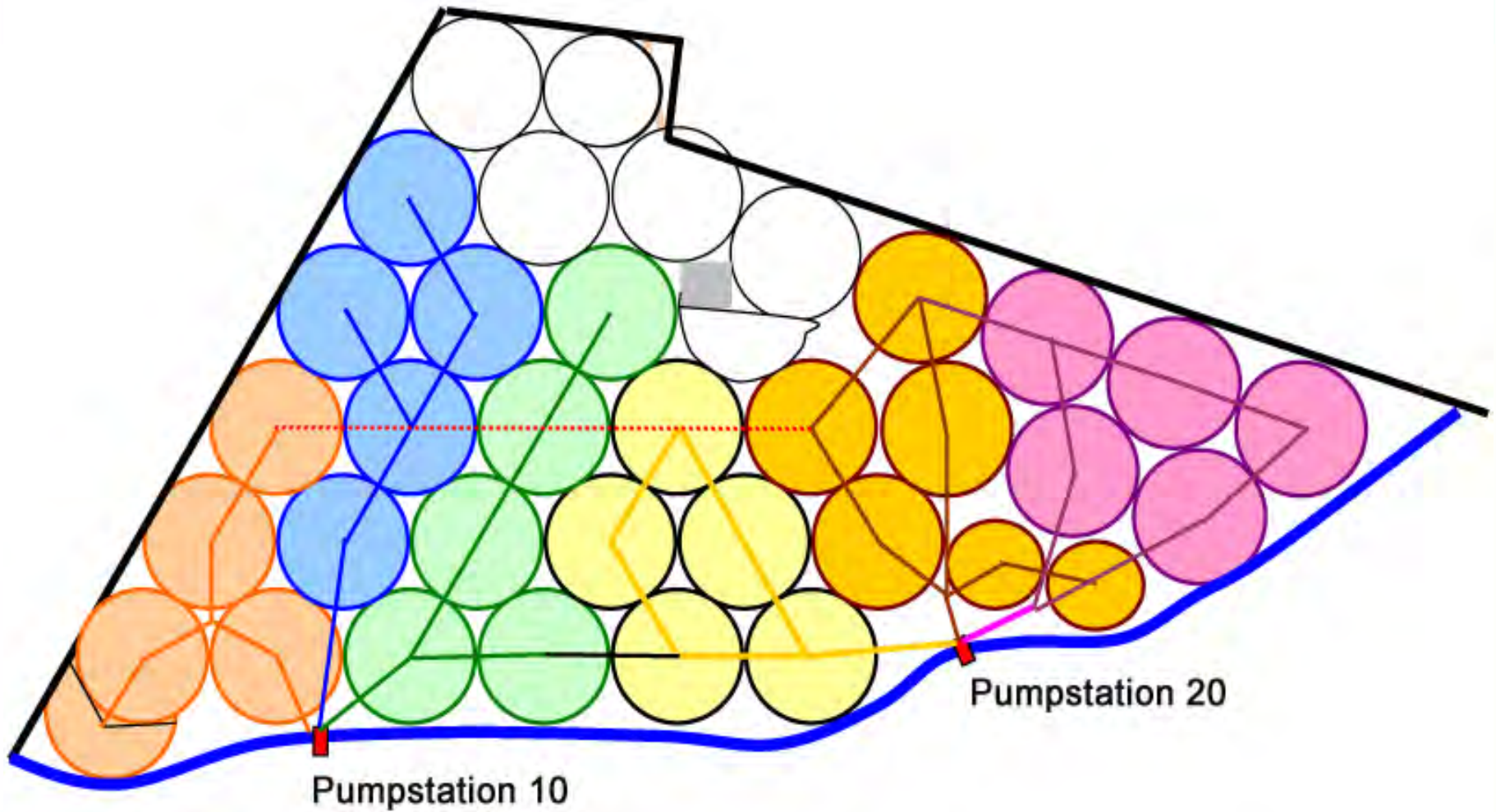
- ❖ Up to 1 500 employees in peak season
- ❖ **Natural attributes** include:
 - **Hutton soil** (transported by wind from the kalahari Desert)
 - **Clovelly soil** (borne down by the Vaal River)
 - Water from the **Vaal and Orange River.**
 - Northern Cape **sunshine.**
 - dry climate, healthy crop production under irrigation.
 - solarisation 'cleans' soil.



SPILPUNTE : WILDEKLAWER



SPILPUNTE : ROMANCE



De Bron





PACKHOUSE

Technical Department

CONTAINER DEPOT



OFFICE COMPLEX



FARM LAYOUT AND DESIGN

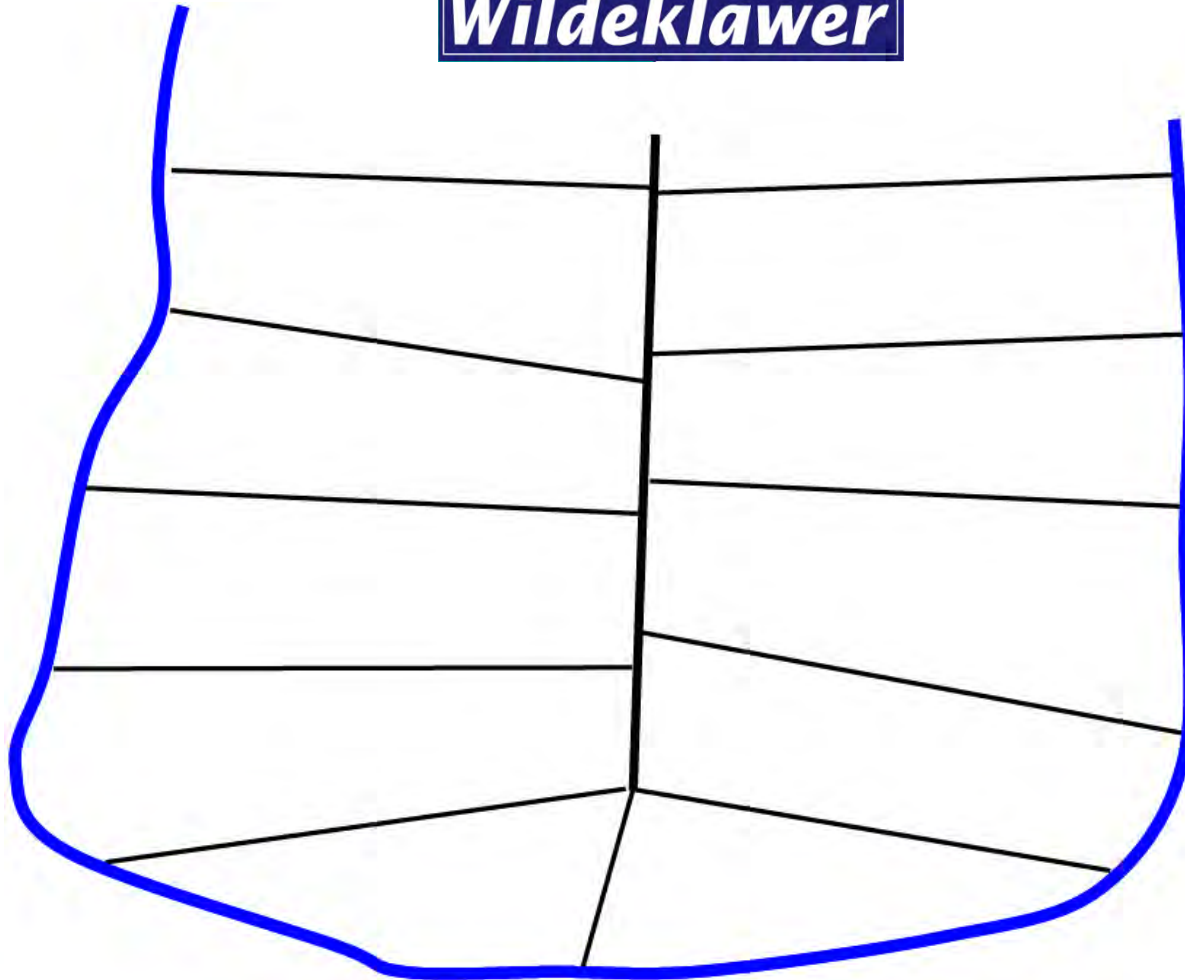
-
- Existing main farm property created from 15 farms
- Objective: three big farming units, each to be managed as

PROFIT CENTRE

- **Wildeklawer** (Vaal River Scheme)
- **Romance** (Vaal River Scheme)
- **De Bron** (Orange River Scheme)

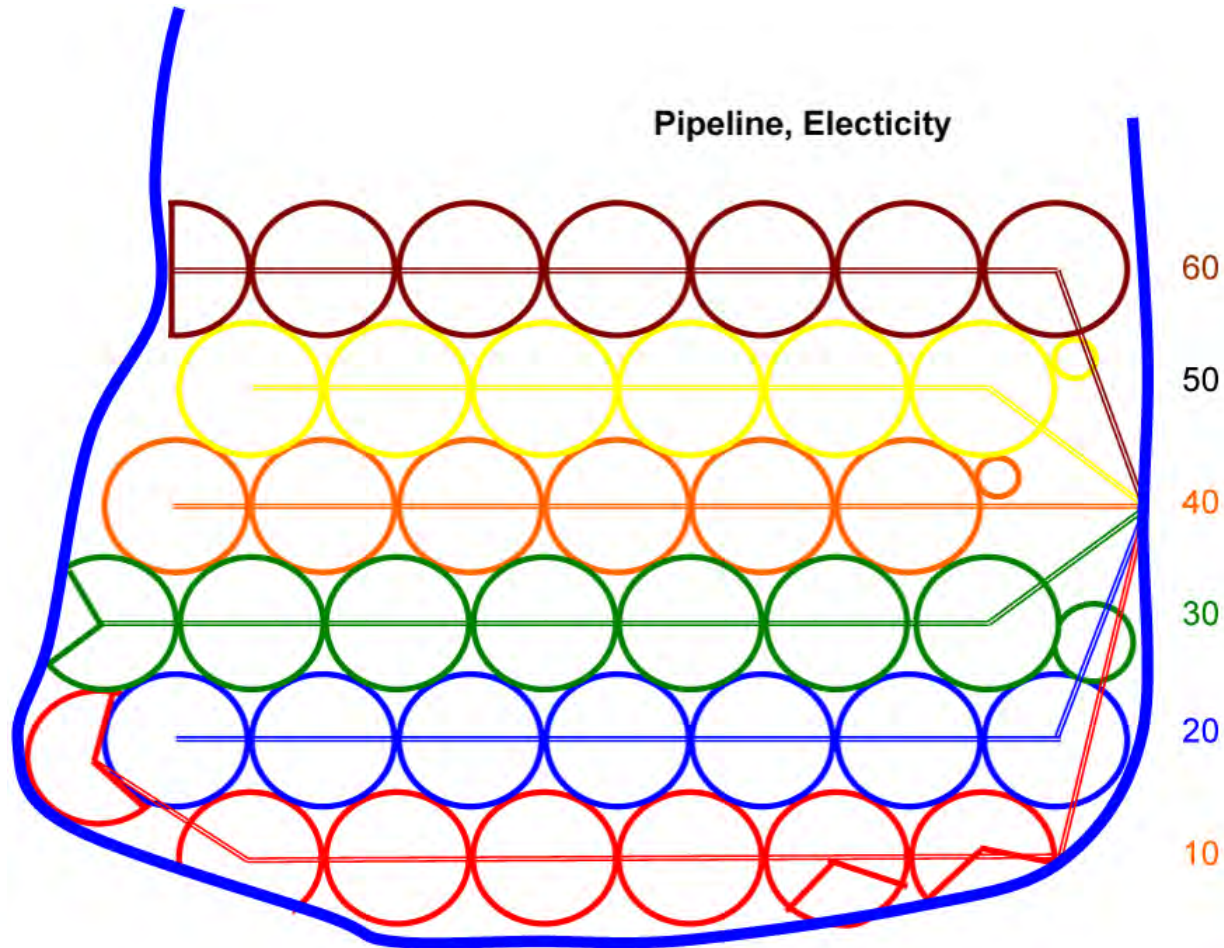
FARM LAYOUT AND DESIGN

Wildecklawer



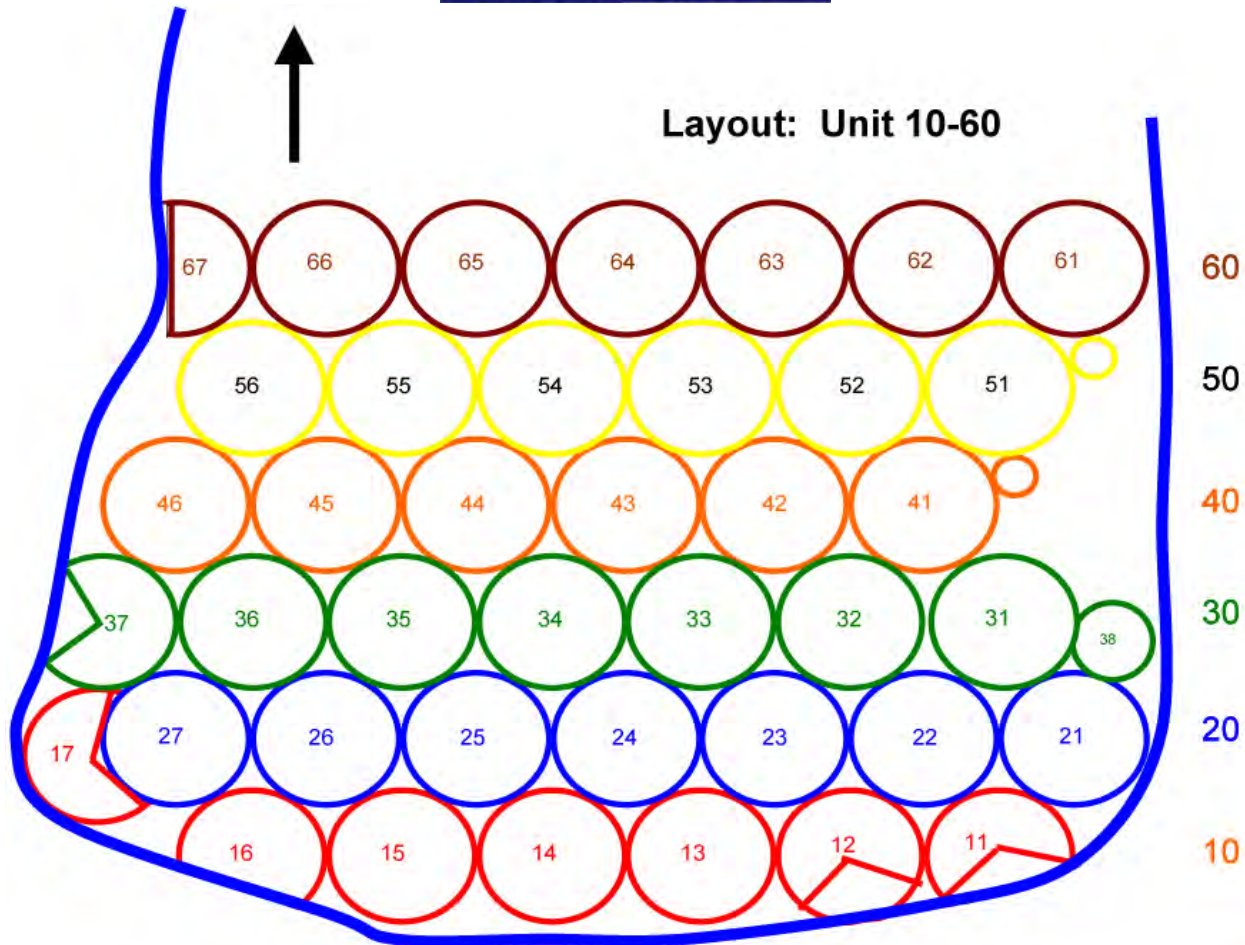
FARM LAYOUT AND DESIGN

Wildeklawer



FARM LAYOUT AND DESIGN

Wildeklawer



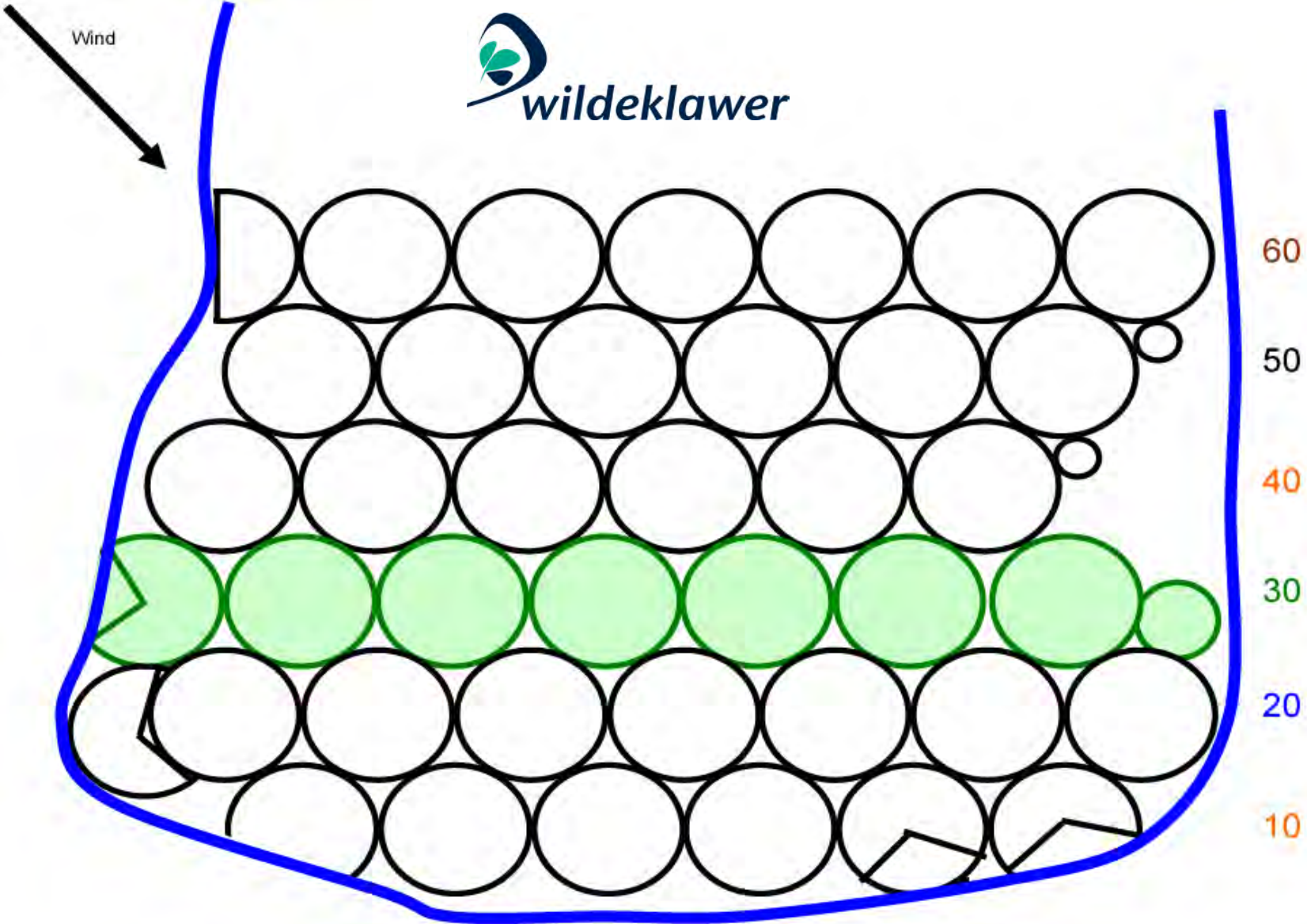
FARM LAYOUT AND DESIGN

- Extensive crops (maize, wheat)
- Row of +/- 7 fields managed as one.
 - Planted in 1 week.
 - Fertilized in 1 day.
 - Irrigated as a unit.
 - Big farm operating like a small farm.

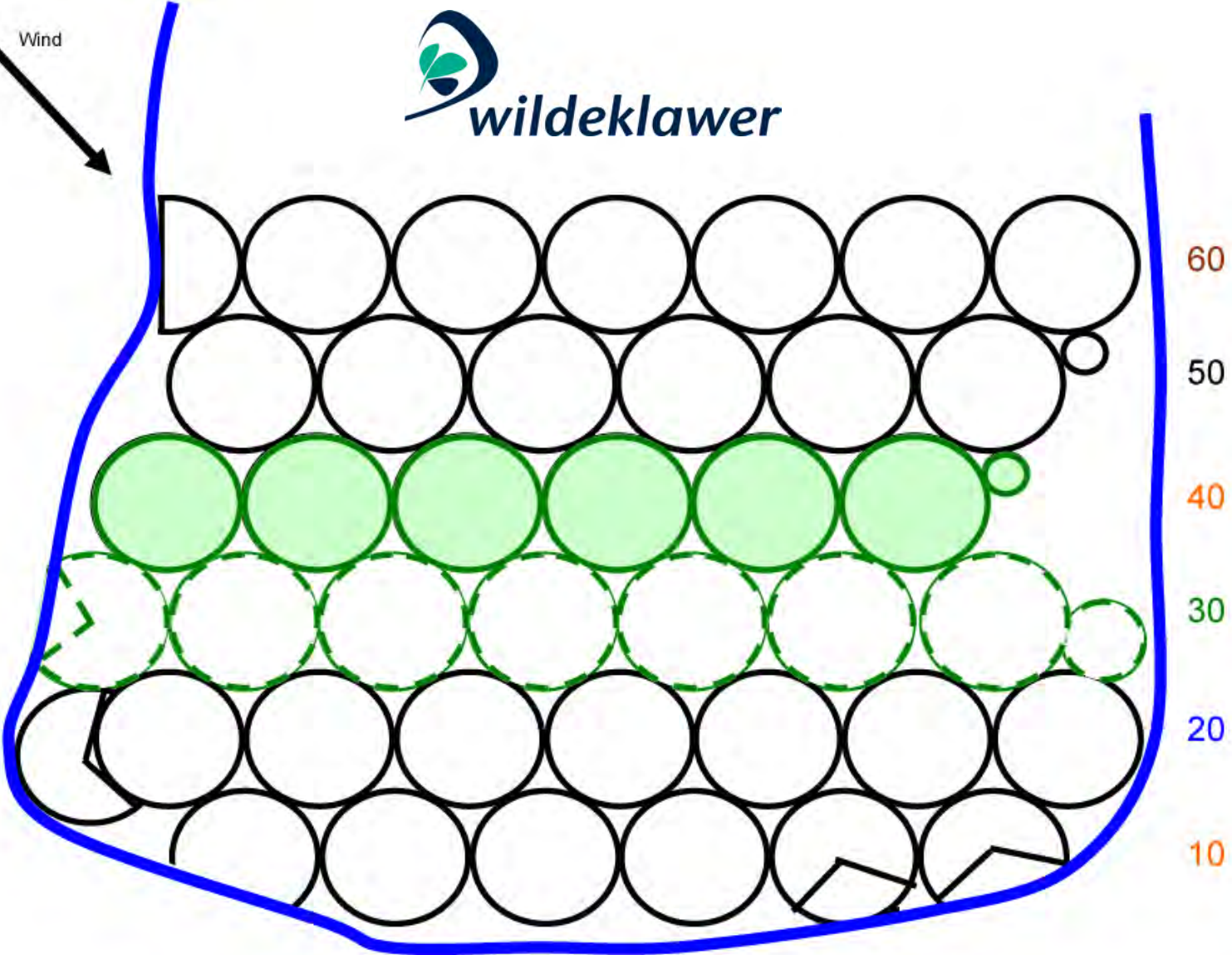
Intensive crops (onions, potatoes)

- Planted east to west.
- Against wind direction; and disease from previous crop borne away.

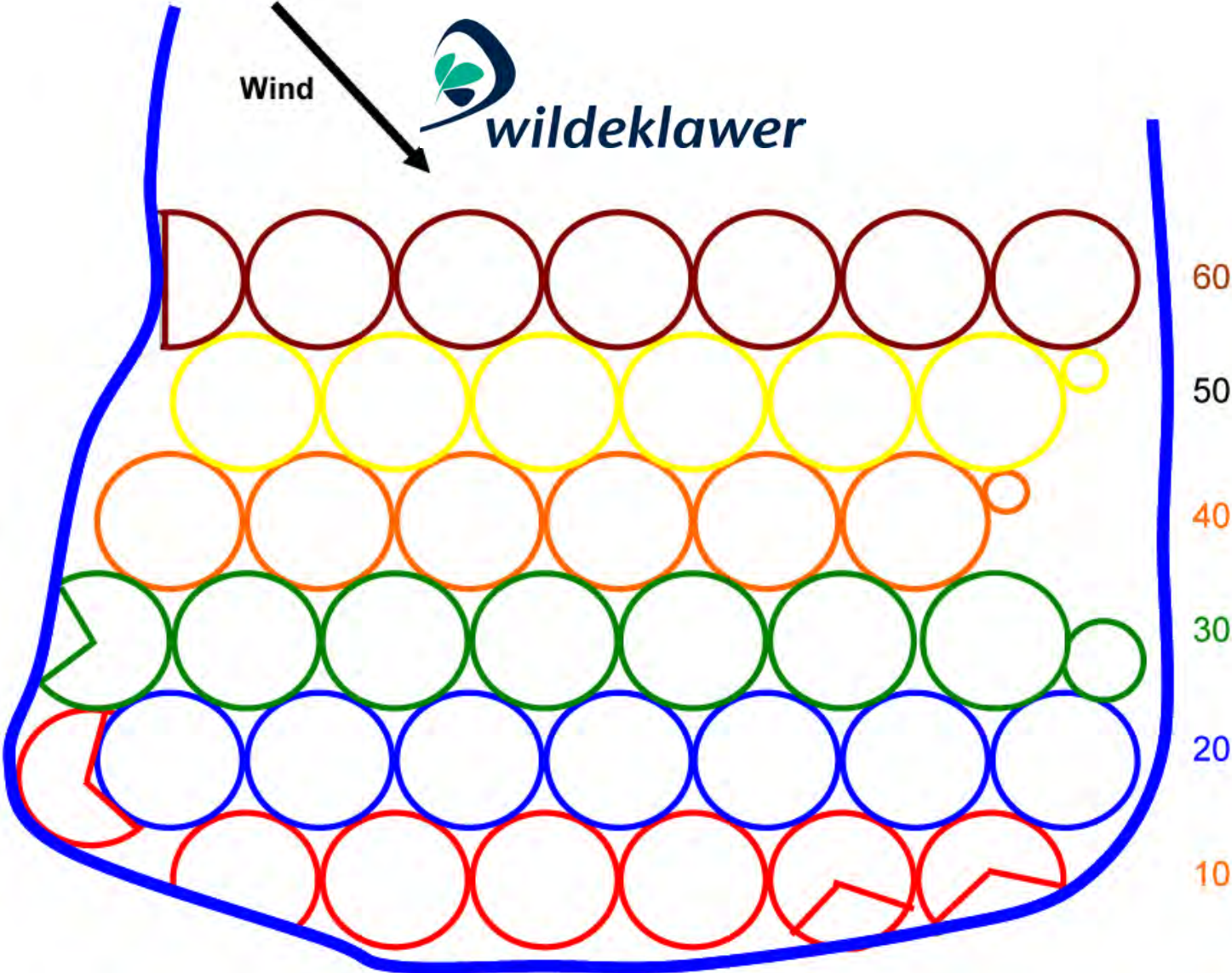
FARM LAYOUT AND DESIGN



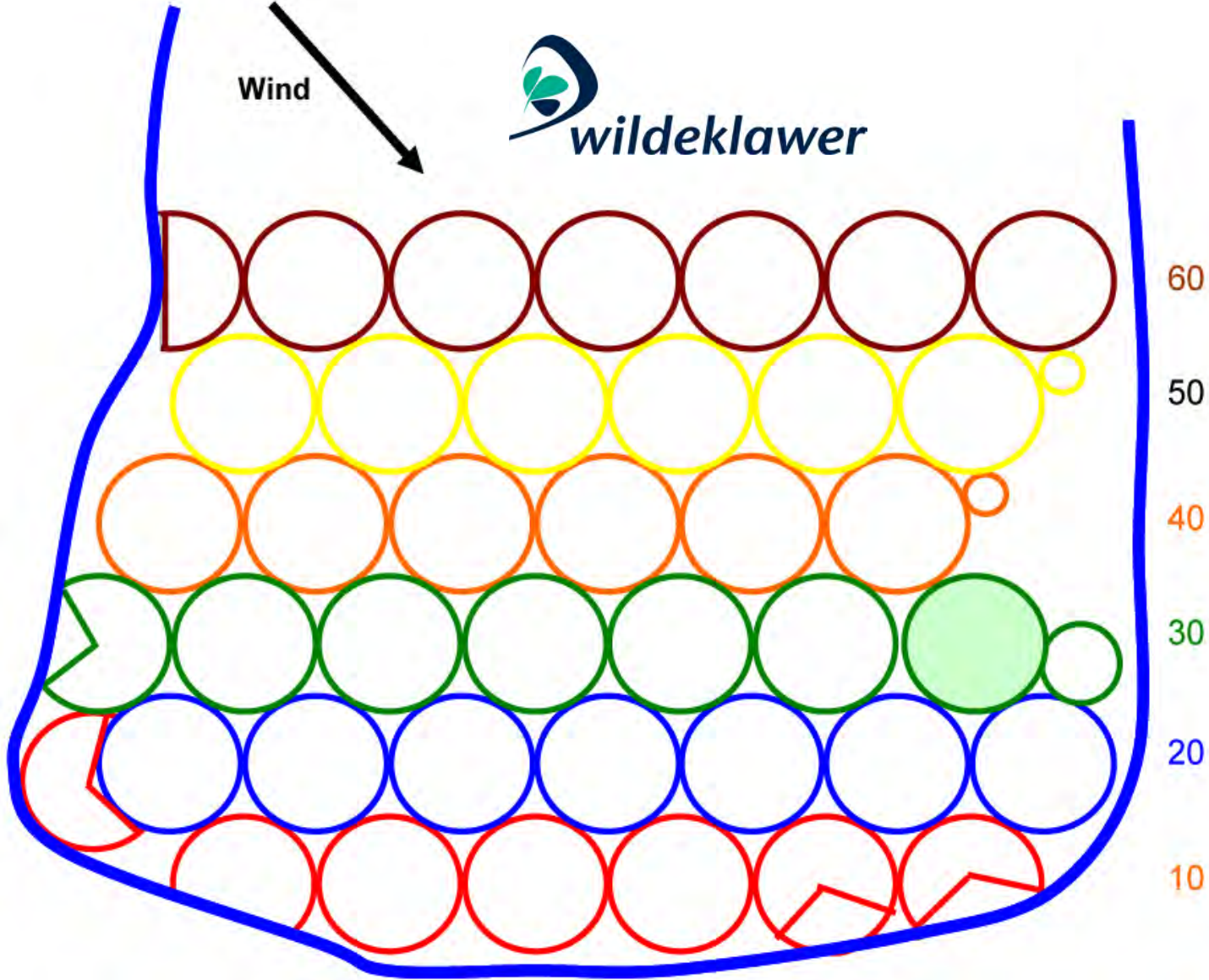
FARM LAYOUT AND DESIGN



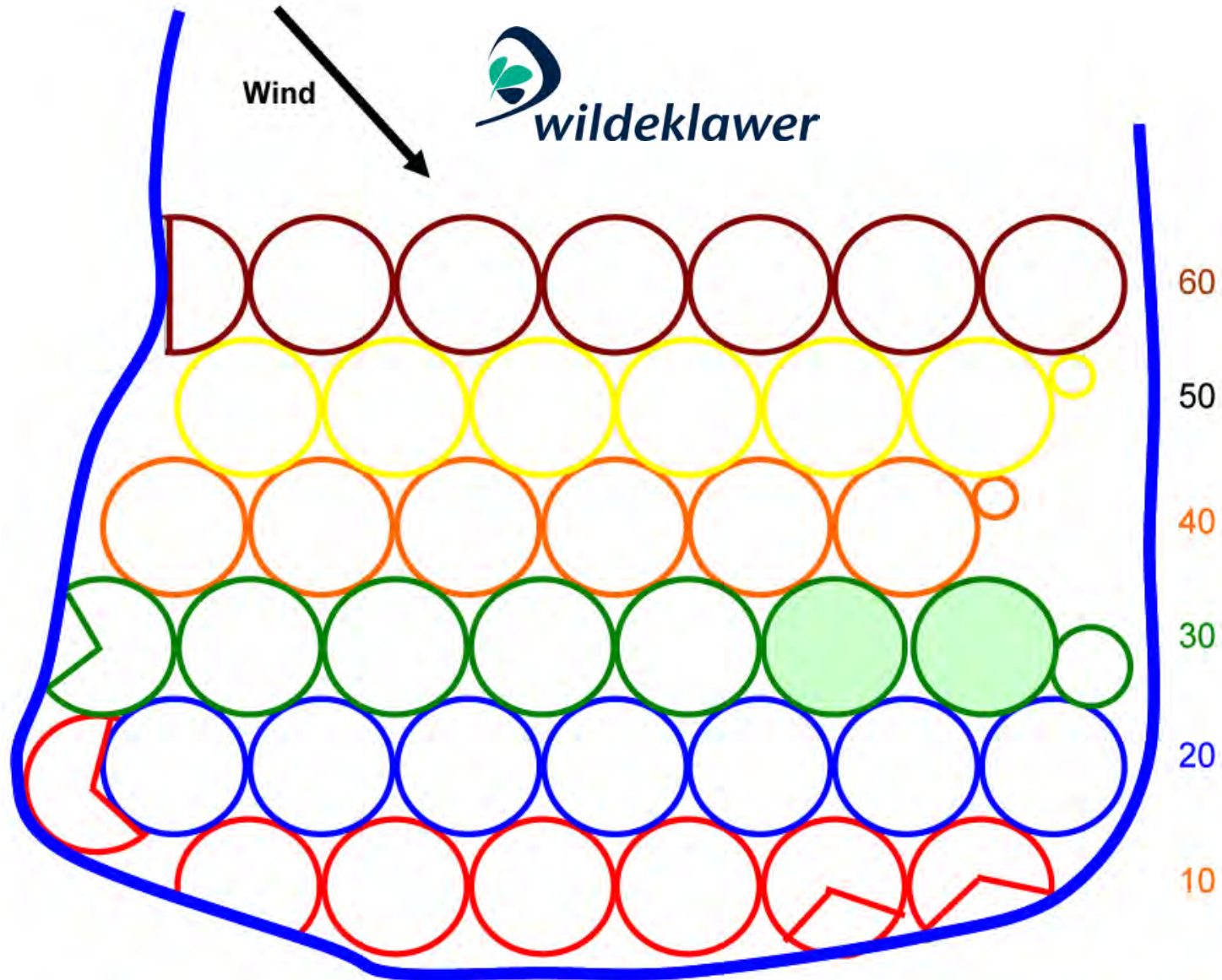
FARM LAYOUT AND DESIGN



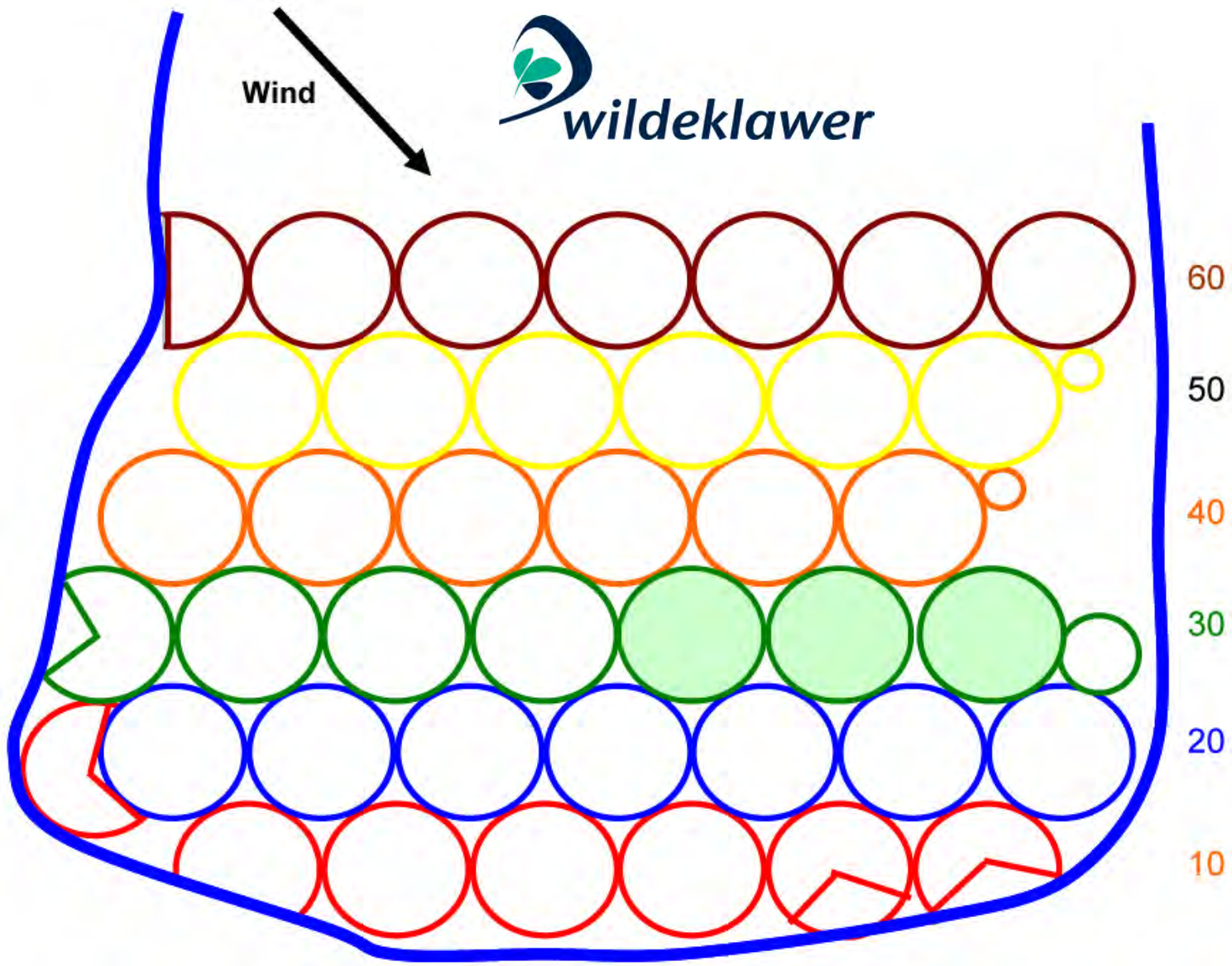
FARM LAYOUT AND DESIGN



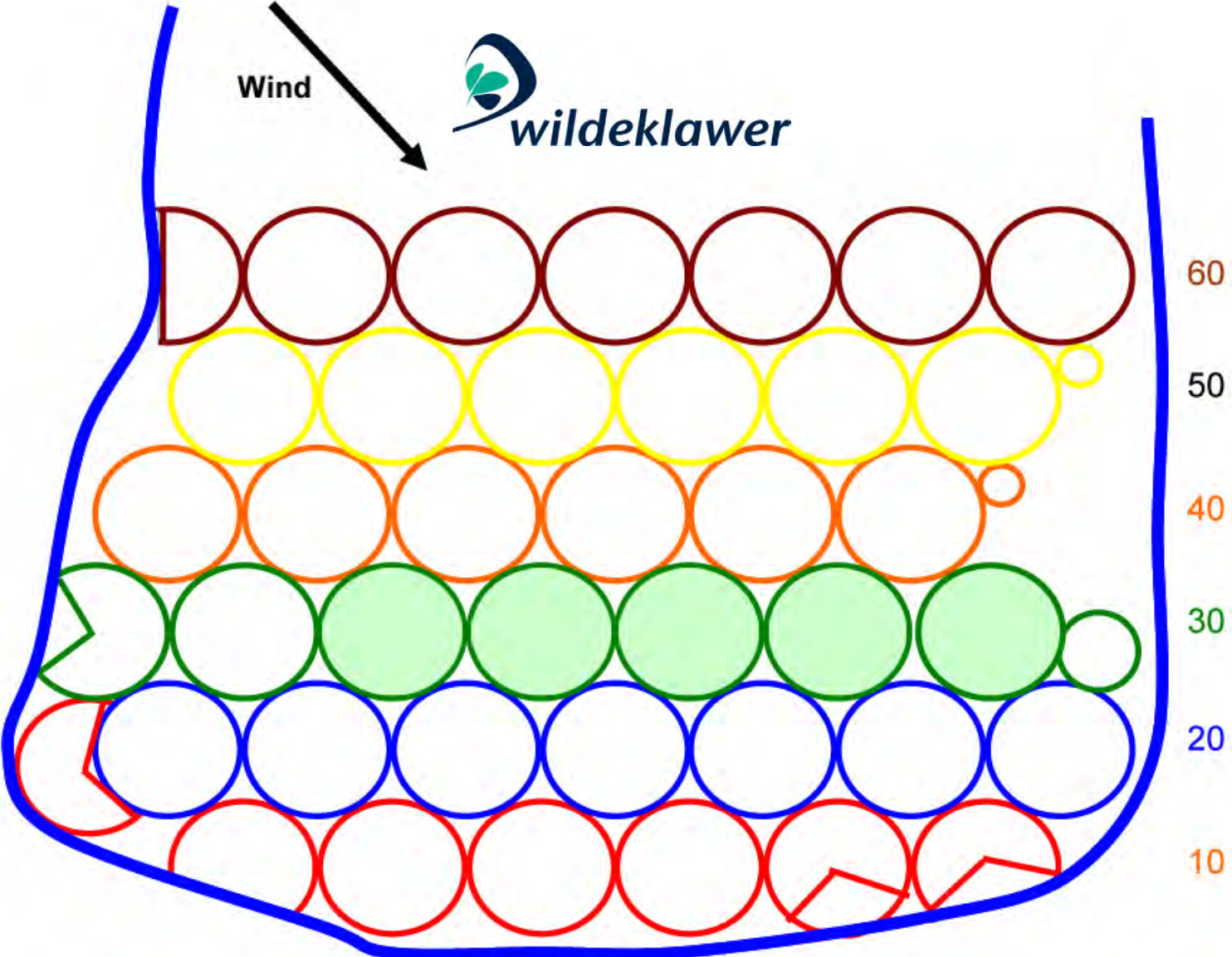
FARM LAYOUT AND DESIGN



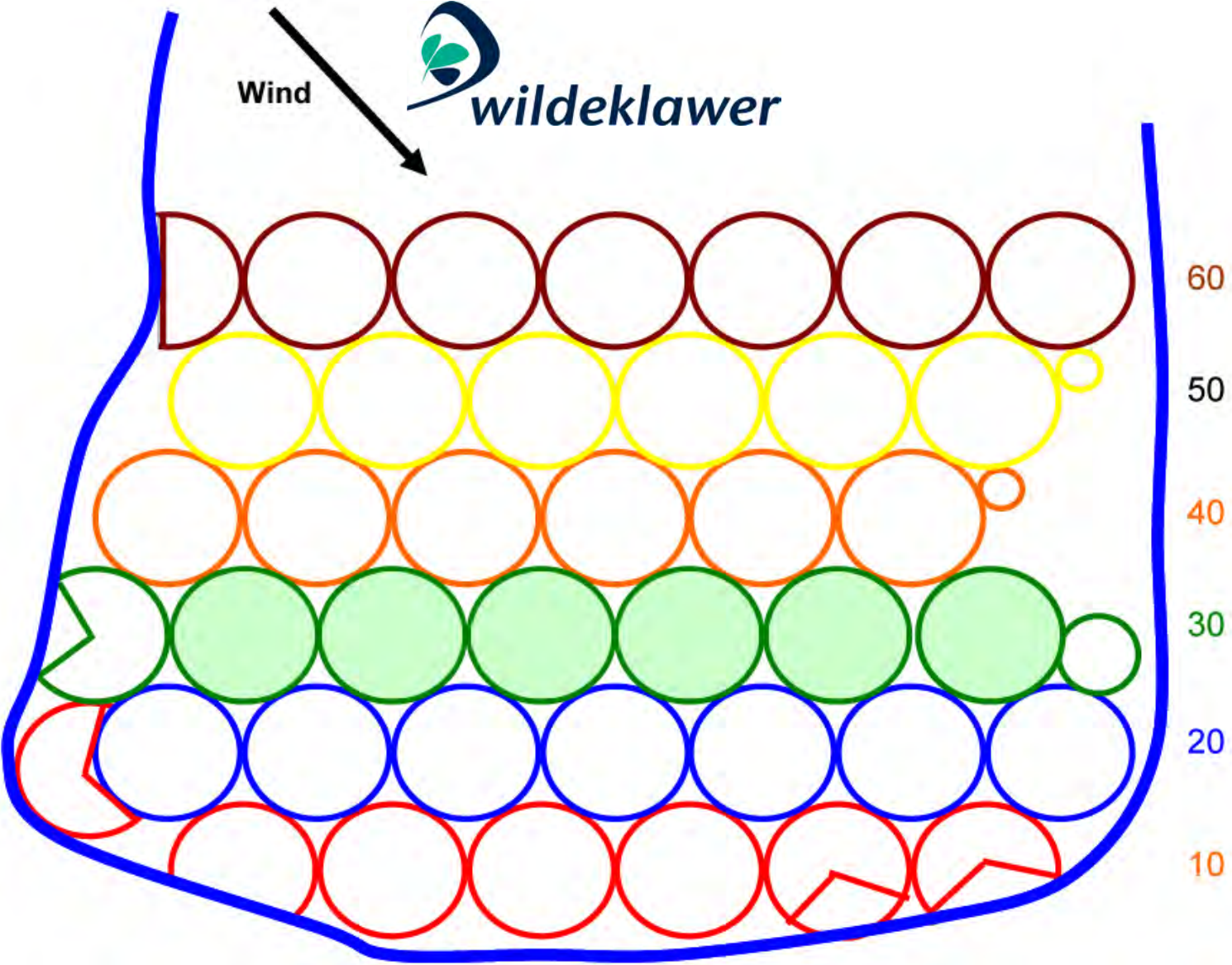
FARM LAYOUT AND DESIGN



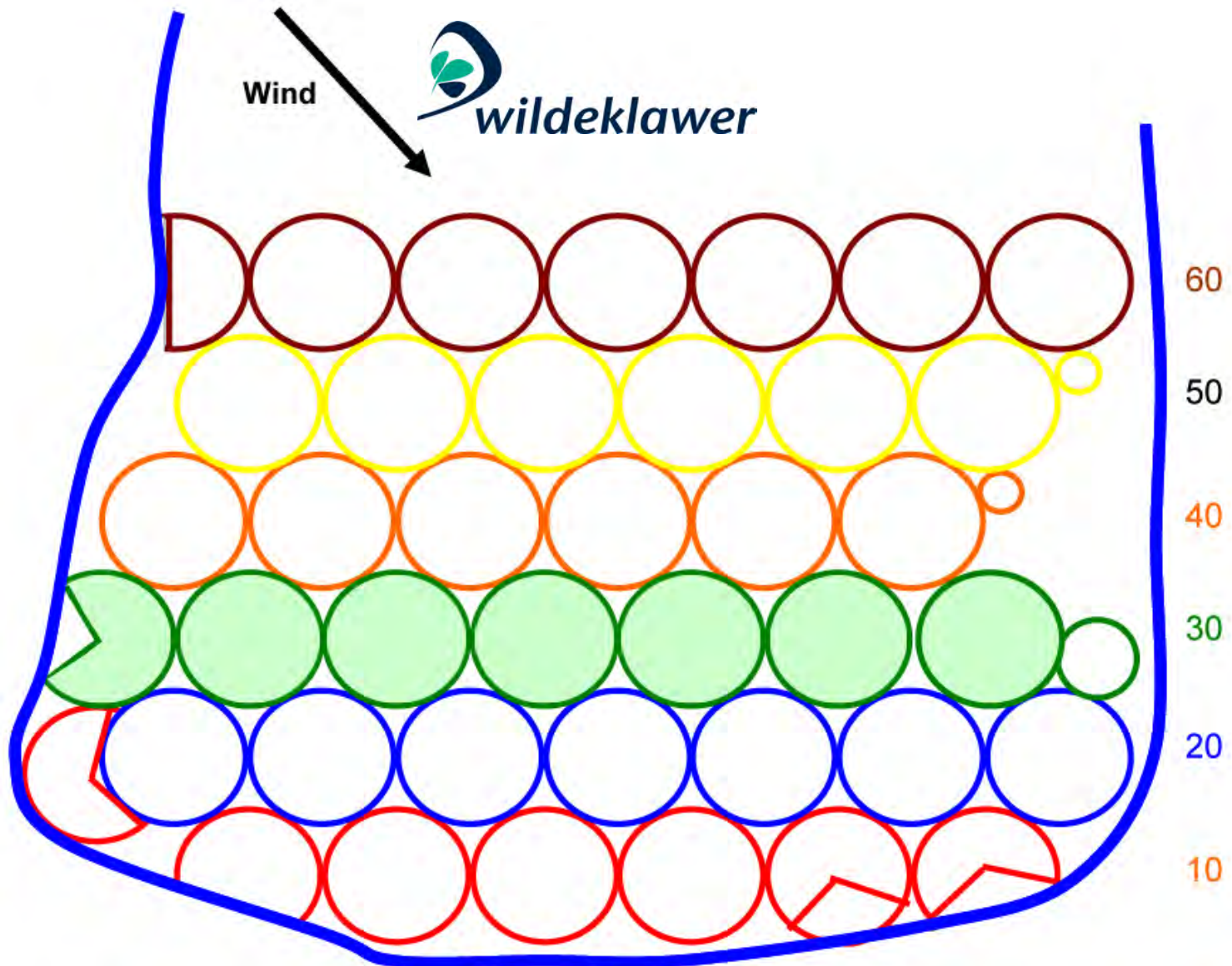
FARM LAYOUT AND DESIGN



FARM LAYOUT AND DESIGN



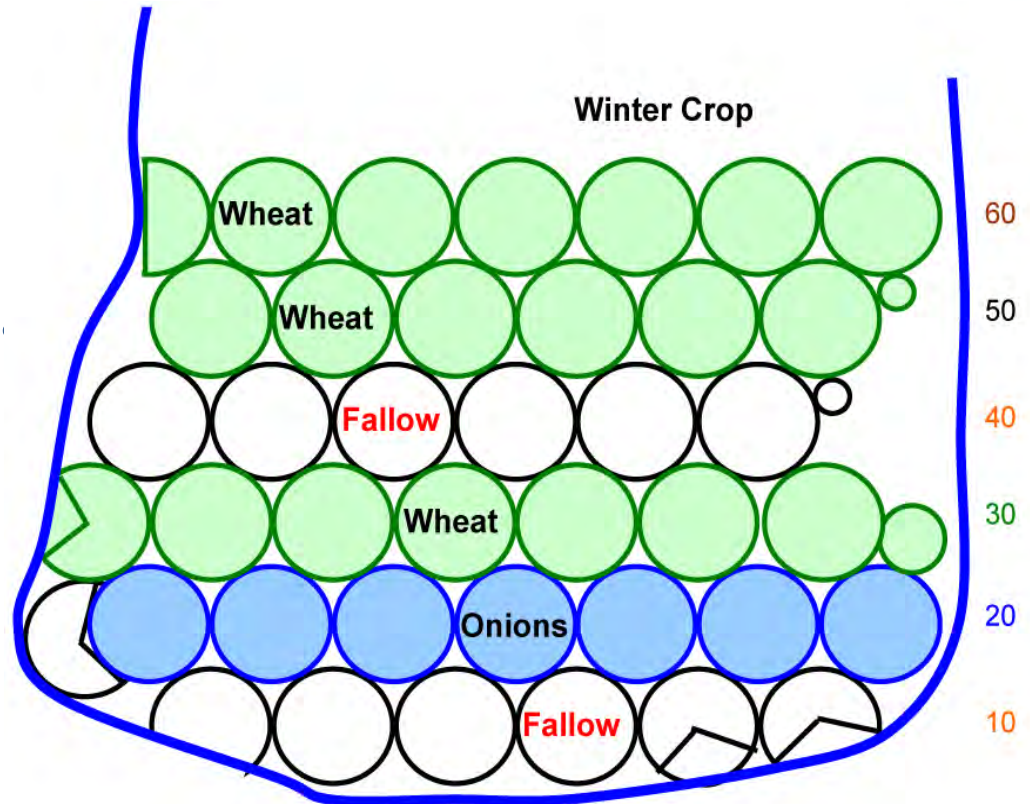
FARM LAYOUT AND DESIGN



FARM LAYOUT AND DESIGN

- **Crop rotation**

- One row of fields per crop
- Crops move one position against wind direction per year
- Rotation periods
 - potatoes – 6 years
 - onions – 6 years, then 3 years



- Each onion, potato crop planted in same beds
- Onion, potato tractor wheels the same

DEVELOPING A VEGETABLE FARM

- **Developed as vegetable farm (with higher specification)**
- **Specification for Wildeklawer centre pivots:**
 - **Standard: 20 ha standard pivots (trials with all pivots, from 1 to 12 towers)**
 - 10 hours per revolution @ 100% setting.
 - easy fertilizer calculation per centre pivot.
 - **90% of pivots remote control by computer from Cape Town – Web based.**
 - **Double speed motorgear for chemical application**
 - **Increased height of pivots to clear all tractors.**

DEVELOPING A VEGETABLE FARM

- **Developed as vegetable farm with higher specification**
- **Specification for pipelines:**
 - Most pipelines are PVC with Stainless steel valves
 - Change from agricultural standard (imperial) to INDUSTRIAL standard (metric)
 - Bigger diameter pipelines for less friction = 20% of Engineering standard
 - Pipe network includes all pivots and pump stations – less friction (cost)
 - All pipes with increasing slope from river
 - No airlock and decreasing of pipe diameter
 - Easy repair of pipelines



**Pipeline
lay-down
by LASER**

DEVELOPING A VEGETABLE FARM

- **Pumps:**
 - **Standardize pumps to 3 models**
 - **High efficiency – single stage**
 - **High suction – move less with floods**
 - **High efficient pumps**
 - **Pumpstations developed to move all pumps in 1 hour with one person in the case of floods**

DEVELOPING A VEGETABLE FARM

- **Specification for laser scraping:**
 - Leveling first done with laser (constant slope) and then with satellite control and multiple slope in xy. Slope less than 1.2%
 - All clay to be moved into ditches.
 - No clay layers within 1 meter from final top layer
 - If a clay layer is within the first 700mm, then remove all soil up to that level, remove layer up to 1m and fill back.
 - **The texture in every pivot must be uniform.**



wildecklawer



LASER SCRAPING

- **Thundershower problems**
 - High sections of onion fields dry out.
 - Lower sections flood.
 - Plants get stressed.
- **Solution**
 - Laser scraping to level onion fields.
 - 3 tractors working 24 hours a day.
 - 17 years down, 5 to go.



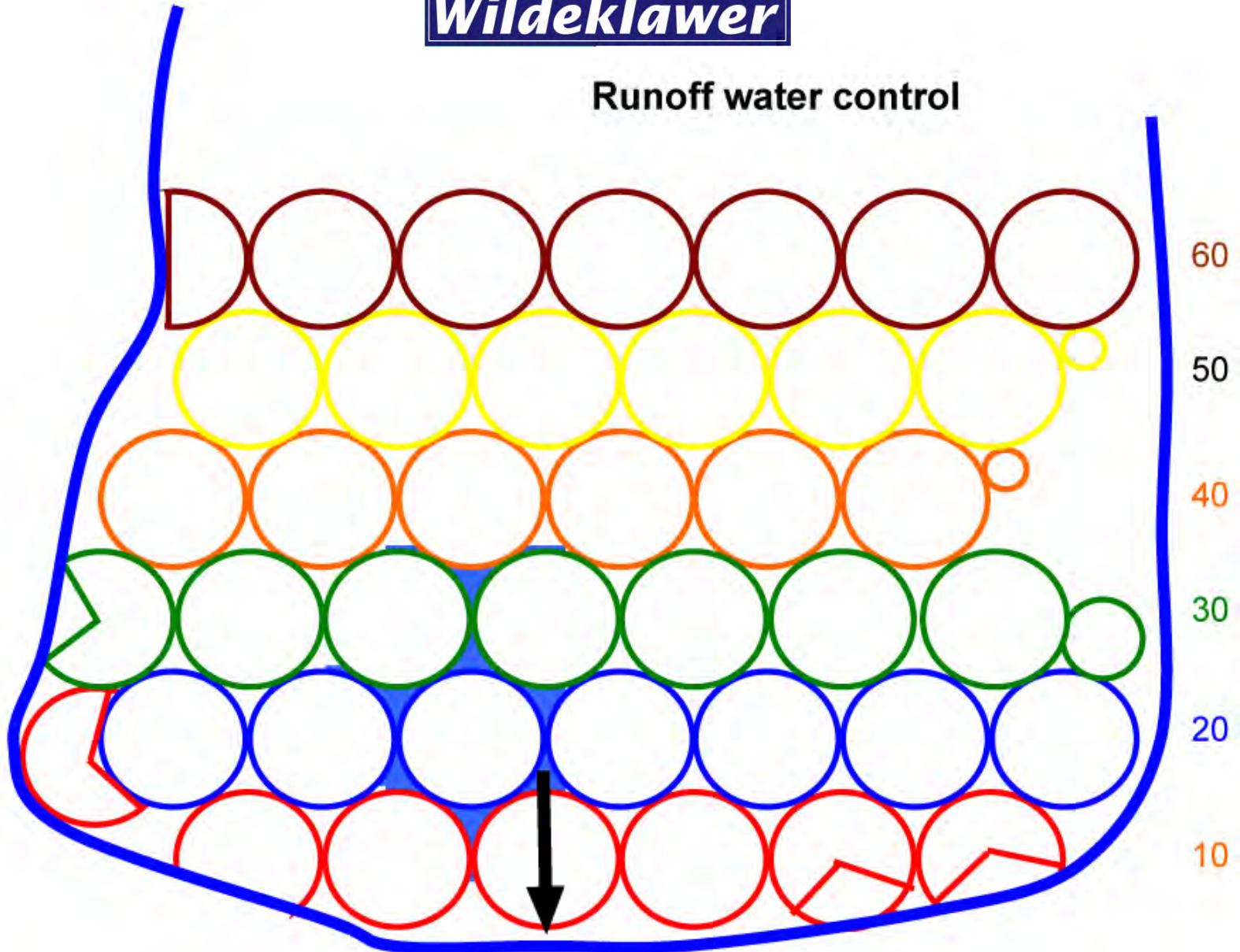
LASER SCRAPING CONTINUE

- Outcomes
 - **less chemical spraying.**
 - less planting, harvesting management.
 - better quality from lower outputs.
 - **factory-like management – planning and systems, semi-skilled people do advanced work**
 - improved profitability.
 - off-cut area between pivots.
 - dam to buffer run-off
 - laser bottom
 - plant Lucerne – watered by run-off (trip control)
 - underground flood water pipelines to river

LASER SCRAPING CONTINUE

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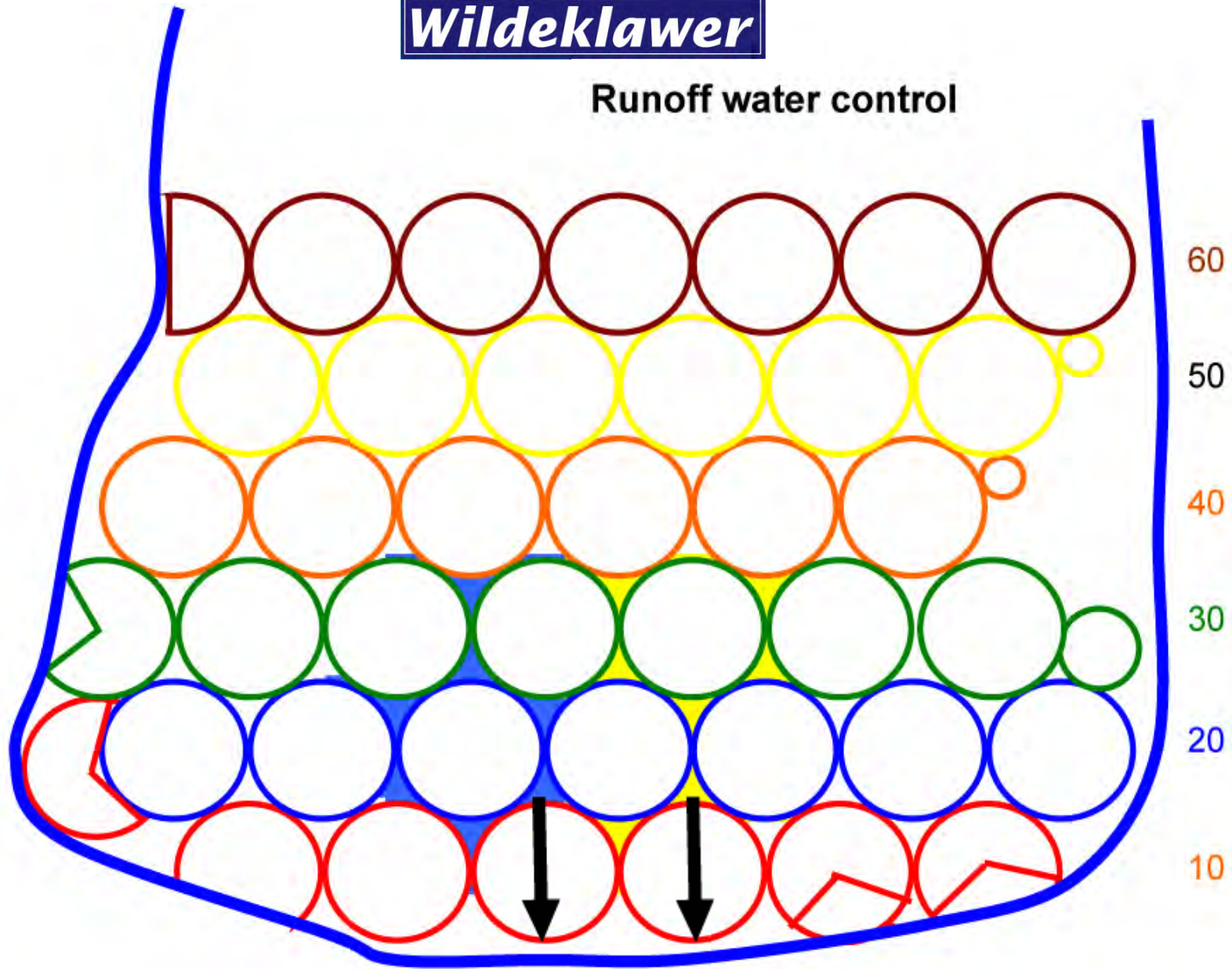
Runoff water control



LASER SCRAPING CONTINUE

Wildecklawer

Runoff water control



TECHNICAL DEPARTMENT

- One of the most advanced in SA agricultural sector
- Introduced GPS for lazering, planting en all new technology
- Designs, builds most implements
- Built most pack house equipment
- Maintains tractors, trucks, other vehicles
 - Tractor world record – 27,420 hours without any repairs on the engine and gearbox
 - Now at 40,114 hours and still in production.
- Works 24-cycle for 4 months
 - Some tractors work day and night
 - Filling with diesel, services and repairs on tractors and implements on 2nd shift

TECHNICAL DEPARTMENT

- Mechanical team for tractors, trucks, forklifts, LDV etc – 3 mechanics
- Implement service centre with 2 craftsmen
- Steel Construction team with 2 boilermakers
- Construction team – Buildings, pumpstations, pumps and pipelines
- Parts division with necessary parts and record keeping
- Every tractor, truck, forklift is a profitcentre
- Machine shop with 3m lathe, bending machine, milling machine, cropper etc with 2 Toolmakers
- Machine shop is operating as a business on it's own

Lathe – 3m



Milling Machine

Bending machine



Manufacturing of manifold





ONION PRODUCTION

- We produce 30% of SA in period Oct to Jan
 - 75 t/ha – 100 t/ha.
- Eurepgap then Globalgap
 - first SA onion producer to be approved (2002)



ONION PRODUCTION CONT

- **Research and development team:**
- **Trials to evaluate production techniques**
 - Plant population, spacing
 - Water, fertilizer management
 - Combining high-tech and labor
- **Cultivar trials**
 - To determine optimal planting, harvesting of sweet, commercial onions



Week			10-Mar	17-Mar	24-Mar	31-Mar	07-Apr	14-Apr	21-Apr	28-Apr	#####	#####	#####	#####	02-Jun	09-Jun	16-Jun	23-Jun	30-Jun	07-Jul	14-Jul	21-Jul	28-Jul	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####				
			Mar				Apr				May				Jun				Jul				Aug				Sep				Okt				Nov				Des		
Early Gold	72	23	23							72-W																															
Early Gold	72	23	7	16							72-E																														
Early Gold	52	20		17	3									52																											
Springmaker	51	20			20										51																										
Mondego	99	4			4										Neil																										
Safari	53	20				20										53																									
Savannah	15	5					6									15-W																									
5517	15	10					10									15-E																									
5517	16	10					7	3								16-E																									
Hanna	15	5					2	2								15-W																									
Radium	16	10						10								16-W																									
5514	17	10						10									17																								
Matahari	17	6						6									17																								
Hojem	17	4						4									17																								
		##																																							
Jaguar	76	12							12																																
Matahari	76	2							2								76																								
Hojem	77	7							7																																
5553	77	7								7																															
5553	78	14								14																															
5553	56	10									8	2																													
5553	21	18										18																													
5553	33	4											4																												
Juanita	33	1																																							
C571	33	7																																							
5556	33	1																																							
Aust Br	33	7																																							

ONION PRODUCTION CONT

- **Simulation program** for production of onions.
 - Cultivar
 - Harvest capacity
 - Storage capacity
 - Demand.



ONION PRODUCTION CONT

- **Planting:**
 - seedlings in 25 ha beds.
 - fields lazered, well prepared.
 - boundaries marked to accuracy of 50 mm.

 - **GPS auto pilot:**
 - Straight rows – deviation of less than 25 mm.
 - Exact track intervals.
 - 282 beds per field.
 - length, number of seedlings per bed known.
 - labour costs known.
 - transplanted by hand to 400 ha (1 000 acres).
 - 725 000 seedlings per hectare.
 - 290 000 000 seedlings planted over 400 ha at 99.6% accuracy.











































wildelawer.com



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053 531 1007

Barkly West
www.kelrn.co.za

04

80

BDT-424-WC

741

TOYOTA

20

TOYOTA

SUMMARY OF PACKAGING UNITS

Grain

- Wheat
- Mielies

Vegetables

- Onions
- Potatoes
- Beetroot
- Carrots

Packaging Material

- Onions - 72 variants
- Potatoes – 16 variants
- Carrots – 11 variants
- Beetroot – 8 variants

TOTAL = 107

PACAKGING



PROMOTIONS



HOSTEX INTERNATIONAL EXHIBITIONS





PRODUCTS DELIVERY IN SA



TRANSPORT



WILDEKLAWER GRIEKWAS : VODACOM WINNERS 2005/ 2007



Wildecklawer Youth





COMMUNITY RESPONSIBILITY



INWONERS van die Rooikoppie-uitbreiding by Delportshoop drom saam terwyl mnr. Ben Riet, vragmotorbestuurder van die Wildeklaewer-groenteplaas by Barkly-Wes, die bak kante sodat die voedsame kos na benede kan tuimel. Gister het die armstes van die armes dié milde geskenk in hul woonbuurte gekry. FOTO: FRANS COETZEE

Jonk en oud sak toe op reuse-aartappelgeskenk

■ FRANS COETZEE

DELPORTSHOOP. – Soos manna uit die hemel het tonne aartappels gister hier voor opgewonde inwoners van behoeftige gemeenskappe neergeplons om die honger mae vir die volgende paar weke te vul.

Kort voordat Wildeklaewer se vragmotor omstreeks 11:00 op die horison verskyn het, was Tidimalo se stofstrate verlate.

Enkele vroue en fietsryers het traag tussen die doringbome deurgeveg.

niet verskyn. Haastig het oud, jonk en klein die malende wiele na 'n uitgraving in die Rooikoppie-uitbreiding gevolg.

Elke hol dingetjie wat gedra kon word, is saamgeneem.

Plastieksakke, slopemmers, wasbakke en selfs toegeknoopte truië is gebruik om die aarde se opbrengs netnou huis toe te vat.

Bejaarde mans het dolleë slingerende kruiswaens hygend teen die skotige hoogte uitgestoot.

pels nader gehark.

Vroue se vlymskerp stemme het teen die skuinste weergalm.

Binne tien minute was die rooi aarde kaalgestroop.

Die aardige toneeltjie het hom ook in Tidimalo, Proteahof en die Sewende Laanplakkerskamp afgespeel.

“Haai ou Let, staan bietjie opsy met jouse groot tette dat 'n oudste ok 'n 'tappeltjie kan kry,” het 'n uitgedorde vroujie hier agter die bibberende menslike “skrum”

opgemerk dit is die gouste wat die inwoners die hope nog ooit opgeraap het.

Die hongerpyne knaag reeds vóór die winter waar sowat 88% van die bevolking werkloos is.

Ondervinding het geleer dat die groente wat die Wildeklaewer-plaas buite Barkly-Wes na die behoeftige gemeenskappe aantry, in kleiner hope op verskillende plekke afgelaai word.

As te veel op 'n slag afgelaai word, dryf die kwajongens en tsotsi's die skare met

COMMUNITY RESPONSIBILITY



CONTAINER DEPOT

















11/11/2008







Container straight up











Wildeklawer Qualities



- Creativity and detail in all aspects of the business.
- Professional management on all levels.
- Discipline and responsibility.
- Specializing in vegetables.
- The strongest technological-run farm in the agricultural sector.
- Holistic approach in conjunction with nature.
- Client is “King”
- People-orientated.
- Research and development – plays a key role in the Wildeklawer ‘s future.
- Strong sense for marketing and packaging.
- Minimal compromise on accuracy and quality.
- Productivity, Strives towards ZERO defects



**Wishing you all the best
with your endeavours**

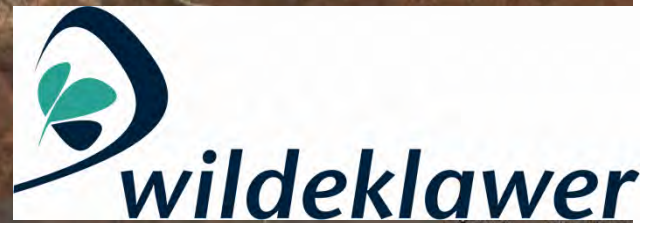




Image © 2007 DigitalGlobe
© 2007 Europa Technologies
Image © 2007 TerraMetrics

Pointer 28°34'39.74" S 24°35'23.01" E elev 1108 m

Streaming ||||| 100%





CONTAINER DEPOT



Management

No Short cuts

Do it now

Attention to detail

Population

Irrigation



wildecklawer

Wishing you all the best for the future



Harvesting onions

2

3

Wildeklawer Sweet Onions

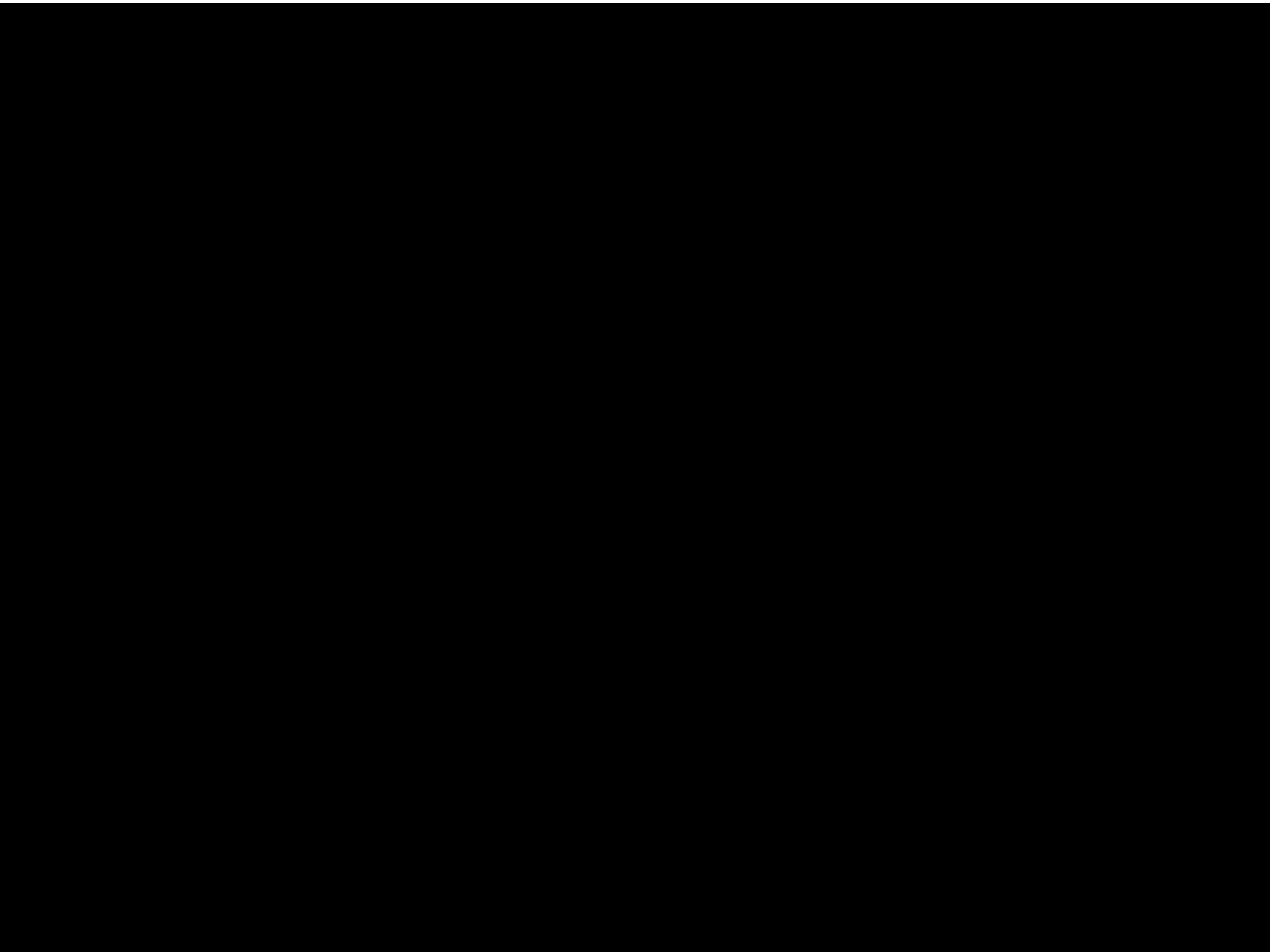
- A superior product
 - more convenient for housewives, catering industry
- We want to produce more
 - higher per capita usage
- Perfect fit for European markets
 - Europe stocks in decline as we hit peak production
 - other onions not a good fit – our product is a better fit for Europe
- Tougher conditions





wildecklauer







37 000 ton / annum

GENERAL

- **In business since 1987**
- **Up to 1 400 employees (season included)**





Maize - 12 000 ton